

Introduction to Physical Anthropology

ANTH 001 (Section 4 30003, Section 5 30884) Spring 2009

Syllabus

Lectures TR 9.00-10.15 AM and 10.30-11.45 AM
Benicia Hall 1025

Instructor: Dr. Roger Sullivan
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Course Description

ANTH 001 is an introduction to the study of human evolution as both:

- a biological and cultural process
- a history of human origins as revealed in the fossil record.

The course material is organized into three sequential areas of study reflecting the diverse sub-disciplines of Physical Anthropology. These are:

1. Human Evolution and Variation: an introduction to the scientific method, history of evolutionary thought, basic evolutionary genetics, mechanisms of evolutionary change and human adaptation.
2. Primatology: an introduction to the non-human primates, primate characteristics, classification, behavior and evolution.
3. Paleoanthropology: an introduction to the practice and methodologies of paleoanthropology, the fossil evidence for primate and human evolution, and with particular emphasis on the fossil, material and molecular evidence for the emergence of anatomically modern humans.

Catalog Description

ANTH 001. Introduction to Physical Anthropology. The place of humans in nature; the geologic environments; the nature of life; human evolution, reproduction and genetics; humans as primates; the human fossil record; the classification and distribution of races. 3 units. Introduction to Physical Anthropology fulfills the Area B2 (Life Forms) requirement for the General Education Program.

Required Text

Stanford C, Allen JS, Antón SC. 2009. *Biological Anthropology*. Second Edition.

Attendance

Class attendance is expected. Examinations are structured around lecture content, not the textbook.

Class Conduct

Turn off cell phones during class time. Laptops may be used for note taking only. Be punctual. Inform me beforehand if you must arrive late because of work commitments. If your commitments require you to leave class early, let me know before class.

Academic Honesty. If a student is found cheating in any of the assignments/exams of this class, the student will receive an F for that assignment/exam. It is each student's responsibility to be aware of the university policy on cheating and plagiarism. See the CSUS Academic Honesty Policy and Procedures document at <http://www.csus.edu/admbus/manual/UMA00150.htm>

Grading

All grades are posted on the class web site and are identified by a unique student ID (provided in class). The grading web page is password protected - the password will be announced in class. If you do not want your grading progress made available on the web page, let me know as soon as possible and you can obtain your grades from me directly.

Exams

There will be three (3) exams, each worth 25% of your total grade. Each exam is composed of 50 objective questions (i.e. multiple choice, true/false), and will be timed at one hour. The three exams together are worth 75% of your total grade (3 exams x 25% each = 75%). Two exams will be conducted in class time at the end of each section of lectures, and one exam will be conducted during finals week. All exams are non-cumulative.

All exams are completed on SCANTRON FORMS. You are responsible for purchasing a *General Purpose NCS Answer Sheet Form # 4521* (scantron form) at the bookstore and bringing it to the exam. Scantrons are not returned in class. Grades are posted on the class website, or, you can pick up your scantron from my office during my office hours.

Make-ups for missed exams will only be allowed if the student can provide documented evidence of an emergency (e.g. illness or accident). Appropriate documentation should be on official letterhead and state the time of appointment or emergency. Handwritten notes from friends, relatives or roommates are not acceptable. Make-ups for missed exams will be essay assignments. Appointments for make-up assignments must be made with the instructor immediately after the absence.

Study Guides are posted on the class web site.

Article Reviews

You are responsible for reading 10 articles that are available on LOCUS and completing the attached review questions. Go to <http://locus.csus.edu/locus/index.php>. Register as a new user and login. Click on the link to your class section and you will then be able to access the readings. These reviews are worth 25% of your final grade (2.5% each). Due to the large numbers involved, article review forms are not returned in class. If you want your review forms back, you can pick them up from my office during my regular office hours. Article review assignments are due in class. No assignments will be accepted by e-mail. **NO LATE ARTICLE REVIEWS WILL BE ACCEPTED.**

Extra Credit

You will also have an opportunity to complete an optional extra credit assignment worth 5% added to your final grade. See below for details.

Calculating Your Grade

Grades are calculated by adding up all of your exam and article-review scores to give a total score out of 100 (3 exams x 25% each = 75%; 10 article reviews x 2.5% each = 25%). Completion of the extra credit assignment will add up to an additional 5% to your final grade.

Article Review Schedule (articles available on LOCUS)

Read the following four (4) articles on LOCUS and complete the attached review questions. Due date in class: Thursday February 26 (exam one). **NO LATE ARTICLE REVIEWS ACCEPTED.**

- "A Theory Evolves"
- "Curse and Blessing of the Ghetto"
- "The Saltshaker's Curse"
- "Black, White, Other"

Read the following three (3) articles on LOCUS and complete the attached review questions. Due date in class: Tuesday April 7 (exam two). **NO LATE ARTICLE REVIEWS ACCEPTED.**

- "What Are friends For?"
- "Got Culture"

- “98% alike?”

Read the following three (3) articles on LOCUS and complete the attached review questions. Due date in class: Thursday May 14 (last class). NO LATE ARTICLE REVIEWS ACCEPTED.

- “Scavenger Hunt”
- “Who Were the Neandertals?”
- “The Gift of Gab”

Instructions for Completing the Article Review Forms

Each of the readings on LOCUS is followed by an article review answer page with a list of questions and spaces for your answers. Print out and complete the answer page (don’t print out the whole article – just the answer page). Write full responses to all questions - marks will be deducted for unanswered questions. Use all of the space provided for your written responses - marks will be deducted for answers that are too brief, or that are inarticulate or poorly composed. Do not copy straight from the readings - this is PLAGIARISM. Do not copy another student’s work - this is CHEATING. Students handing in identical work will receive an F. When you have filled out the answer pages, staple them all together and hand them in on the due date in class.

Optional Extra Credit Assignment: Zoo Project

You can add up to 5 percentage points to your final grade by completing this extra credit assignment. To be awarded the extra credit points you must visit the Sacramento Zoo and observe the behavior of two different primate species for at least 10 minutes each.

Your completed extra credit assignment must be typed, a MINIMUM of 2 double-spaced pages long, stapled, with 1” margins, 12 point type. Your assignment should include the following:

- 1) Your name and social security number
- 2) The genus and species names of the primates, as well as the common name.
- 3) A count of the individuals you see including whether they are adult males, adult females or juveniles.
- 4) A 1-2 paragraph summary of each primate species with a description of the behaviors they are engaged in for the allotted time. Do not copy all the information from the Zoo signs, describe behaviors you directly observe. Below are some examples of observations you should record:
 - Are they eating, if so, what?
 - Are they moving around, if so, how?
 - Are they grooming/interacting with each other?
 - Do you see anything specific or unique to this group or species?

Points will be awarded as follows: 20% for following the above directions, 40% for the first group observed, 40% for the second group observed.

Most of you will go to the zoo with others from the class. Be careful not to hand in identical or similar papers. Obviously, you will observe similar behavior at the zoo, but do your own report.

Due date in class: Thursday May 14 (last class)

KEY DATES TO REMEMBER

1. Thursday February 26. **Exam One.** Four article reviews are due in class.
2. Tuesday April 7. **Exam Two.** Three article reviews are due in class.
3. Thursday May 14. **Last Class.** Three article reviews and the optional extra credit assignment are due in class.
4. Tuesday May 19 or Thursday May 21 (see Class Schedule). **Exam Three** (Finals Week).

Class Schedule

Section 1: Human Evolution and Variation

Text Readings

T Jan 27	Introduction	
R Jan 29	Anthropology and the Scientific Method	pp. 3-17, 31-34
T Feb 3	History of Evolutionary Thought	pp. 17-31
R Feb 5	Genetics I: Mendelian Inheritance	pp. 69-78
T Feb 10	Genetics II: The Cell and Cell Division	pp. 37-46, 51-59
R Feb 12	Genetics III: Genes and Proteins	pp. 46-51, 52-53, 84-91
T Feb 17	Human Evolution and Variation I: Forces of Evolution	pp. 78-83, 95-101, 135-146
R Feb 19	Human Evolution and Variation II: Population Genetics	pp. 115-116, 121-135
T Feb 24	Human Evolution and Variation III: Human Variation and Adaptation	pp. 146-157
R Feb 26	Exam 1 (four article reviews are due in class today)	

Section 2: The Primates

T Mar 3	Classification and Speciation	pp. 103-114
R Mar 5	Primate Characteristics and Adaptations	pp. 161-170
T Mar 10	Primate Taxonomy I: Film - <i>The Primates</i>	
R Mar 12	Primate Taxonomy II: Prosimians and New World Monkeys	pp. 170-181
T Mar 17	Primate Taxonomy III: Old World Monkeys and Apes	pp. 181-192, 218-219
R Mar 19	Primate Behavior I: Film - <i>New Chimpanzees</i>	pp. 222-223, 301-306
T Mar 24	Primate Behavior II: Primate Ecology	pp. 192-200, 216-225
R Mar 26	Primate Behavior III: Social Behavior	pp. 101-103, 116-118, 203-215, 449-458
T Mar 31	Spring Break	
R Apr 2	Spring Break	
T Apr 7	Exam II (three article reviews are due in class today)	

Section 3: Paleoanthropology and Hominid Evolutionary History

R Apr 9	Paleoanthropology Methods and Contexts	pp. 229-252
T Apr 14	Mammalian and Primate Evolutionary History	pp. 252-258, 261-286
R Apr 16	Hominid Origins and the Bipedal Adaptation	pp. 289-300
T Apr 21	Early Hominids	pp. 309-317
R Apr 23	East African Australopithecus	pp. 317-326, 330-338
T Apr 28	South African Australopithecus and Early <i>Homo</i>	pp. 326-330, 341-348
R Apr 30	<i>Homo erectus</i>	pp. 348-370, 439-448
T May 5	Archaic <i>Homo sapiens</i>	pp. 373-405
R May 7	Anatomically Modern <i>Homo sapiens</i> I	pp. 409-418
T May 12	Anatomically Modern <i>Homo sapiens</i> II	pp. 419-426
R May 14	Anatomically Modern <i>Homo sapiens</i> III + Review (three article reviews and the extra credit assignment are due in class today)	pp. 426-433
T May 19	Exam III	Section 4 8.00 - 10.00 AM Benicia Hall 1025
R May 21	Exam III	Section 5 10.15 - 12.15 AM Benicia Hall 1025